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ABSTRACT

The present invention relates to a method for detecting multiple DNA sequences simultaneously. The method involves amplification of multiple sequences simultaneously by annealing a plurality of paired oligonucleotide primers to single stranded DNA. One member of each pair is ~~complementary~~ <sup>complementary</sup> to the sense strand of a sequences and the other member is ~~complementary~~ <sup>complementary</sup> to a different segment of the anti-sense strand of the same sequence. The amplification occurs by alternately annealing and extending the primers. The invention also includes oligonucleotide primer sequences helpful in detecting genetic diseases and/or exogenous DNA sequences.

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